

Case 3609***Bulimus cylindricus* Menke, 1828 (Gastropoda, Stylommatophora, ENIDAE): proposed conservation of the specific name**

Igor Balashov

Schmalhausen Institute of Zoology, National Academy of Sciences of Ukraine, B. Khmelnytsky str. 15, Kiev, 01601, Ukraine (e-mail: igor_balashov@ukr.net)

Francisco Welter-Schultes

Zoological Institute of Göttingen University, Berliner Strasse 28, 37073 Göttingen, Germany (e-mail: fwelter@gwdg.de)

Abstract. The purpose of this application, under Article 23.9.5 of the Code, is to conserve the specific name of the terrestrial snail *Bulimus cylindricus* Menke, 1828 (currently *Brephulopsis cylindrica*, ENIDAE), originally published as a junior primary homonym of *Bulimus cylindricus* Gray, 1825 (currently classified in the genus *Macroceramus*, UROCOPTIDAE) by ruling under the plenary power to disregard their primary homonymy.

Keywords. Nomenclature; taxonomy; Gastropoda; Stylommatophora; ENIDAE; UROCOPTIDAE; *Bulimus*; *Brephulopsis*; *Macroceramus*; *Bulimus cylindricus*; *Brephulopsis cylindrica*; terrestrial snail; Caribbean; Europe.

1. *Bulimus cylindricus* Gray, 1825 (p. 414), established for a Caribbean gastropod species of UROCOPTIDAE and *Bulimus cylindricus* Menke, 1828 (p. 77) (currently *Brephulopsis cylindrica*; ENIDAE) established for a gastropod from Europe, are primary homonyms (Articles 53.3, 57.2 of the Code). The identity of Menke's name is not disputed. The Caribbean *Macroceramus* species are poorly studied. Gourdon (1907, p. 131) used Gray's name. In the last compilation of the genus, Richardson (1991) classified *B. cylindricus* Gray, 1825 with *Macroceramus formosus* (Wood, 1828, original combination *Turbo formosus*), and assumed incorrectly that Gray's name was a nomen nudum. This could probably be corrected in a future taxonomic study which should also involve studying the type specimens of *B. cylindricus* deposited in 1825 in the British Museum (Gray, 1825). A study of this group is beyond the scope of this application, which is focused on maintaining the usage of Menke's name for the European species.

2. Menke (1828, p. 77) established two names *B. cylindricus* and *Bulimus fusiformis* Menke, 1828. These taxa are currently regarded as conspecific. Retowski (1883, p. 13) and Clessin (1883, p. 48) both selected *cylindricus* acting as First Revisers. This means that if *B. cylindricus* Menke, 1828 cannot be used, *B. fusiformis* Menke, 1828 would be the next available name for the European species.

3. *Brephulopsis cylindrica* (Menke, 1828) is a well-established name and based on a brief survey by ourselves has been used by at least by 43 authors in 110 publications, mostly in the last 20 years (about half of them were listed by Sverlova et al., 2006). In Ukraine the biology of this species (variability, reproduction, dispersal, behaviour,

parasites, etc.) has been intensively studied in the last 20 years. The original range of the species was in the Crimea; recently it has been introduced to many other regions in Ukraine, to Moldova, Abkhazia, south-western Russia and Belarus (Sysoev & Schileyko, 2009; Rabchuk & Zemoglyadchuk, 2011). Many papers have been written on this one species and its name is often used in titles of works (Kramarenko, 1997; Vychalkovskaya & Kramarenko, 2006; Kramarenko, 2009; Rabchuk & Zemoglyadchuk, 2011).

4. The two species under consideration have not been considered as congeneric after 1899. Krynicky (1837) placed *B. cylindricus* Menke, 1828 in *Chondrus* Cuvier, 1816 and after that, this name was not listed in *Bulimus*. Since Herrmannsen (1847) *B. cylindricus* Gray, 1825 has only been placed in *Macroceramus* Guilding, 1828. These two species belong to remote pulmonate groups: *Brephulopsis* Lindholm, 1925 is classified in the Palearctic family ENIDAE, while *Macroceramus* is classified in the Neotropical family UROCOPTIDAE. *Macroceramus* lives only in Mexico, Central America and the Caribbean. The native range of *Brephulopsis* is considered to be within the Crimean peninsula in Ukraine.

5. Nomenclatural stability in this case would be best achieved by disregarding the primary homonymy.

6. As an alternative solution, we could suggest suppression of *Bulimus cylindricus* Gray, 1825 as a rarely used name in accordance with Article 23.9.3 of the Code. Since we are not involved in the study of Caribbean urocoptid species we prefer not to take any action in this respect. We see ourselves guided by Article 23.9.5 to ask the Commission to maintain the usage for the Ukrainian name, but if possible we would prefer not to interfere in the Caribbean urocoptid nomenclature. This is why we would prefer not to ask to place *B. cylindricus* Gray, 1825 on the Official List. The name was used in 1907, but it has not been used recently and placing it on the Official List would have the potential to disrupt Caribbean urocoptid taxonomy, which would not be our intention.

7. Using the name *Bulimus fusiformis* Menke, 1828 for the Ukrainian species would be a possible solution, but since *B. cylindricus* Menke, 1828 has very frequently been used in the recent literature, we would prefer to conserve its usage.

8. The International Commission on Zoological Nomenclature is accordingly asked:
- (1) to use its plenary power to rule that the name *cylindricus* Menke, 1828, as published in the binomen *Bulimus cylindricus*, is not invalid by reason of being a junior primary homonym of *cylindricus* Gray, 1825, as published in the binomen *Bulimus cylindricus*;
 - (2) to place on the Official List of Specific Names in Zoology the name *cylindricus* Menke, 1828, as published in the binomen *Bulimus cylindricus*, with the endorsement that it shall not be invalid by reason of being a junior primary homonym of *cylindricus* Gray, 1825, as published in the binomen *Bulimus cylindricus*.

References

- Clessin, S. 1883. Anhang zur Molluskenfauna der Krim. *Malakozoologische Blätter* (Neue Folge), 6: 37–52.
- Cuvier, G. 1817. *Le règne animal distribué d'après son organisation, pour servir de base à l'histoire naturelle des animaux et d'introduction à l'anatomie comparée. Avec figures, dessinées d'après nature. Tome II, contenant les reptiles, les poissons, les mollusques et les annélides.* Pp. j–xvii [= 1–18], 1–532. Deterville.

- Gourdon, M.** 1907. Liste des mollusques terrestres et fluviatiles offerts par M. Maurice Gourdon au Muséum de la ville de Nantes. *Bulletin de la Société des Sciences Naturelles de l'Ouest de la France*, **6**: 117–143.
- Gray, J.E.** 1825. A list and description of some species of shells not taken notice of by Lamarck. *Annals of Philosophy*, **25**: 407–415.
- Guilding, L.** 1828. Observations on the zoology of the Caribaean Islands. *Zoological Journal*, **4**: 164–175.
- Herrmannsen, A.N.** 1847. *Indicis generum malacozoorum primordia. Nomina subgenerum, generum, familiarum, tribuum, ordinum, classium; adjectis auctoribus, temporibus, locis systematicis atque literariis, etymis, synonymis. Praetermittuntur Cirripedia, Tunicata et Rhizopoda*, vol. II. Pp. 1–352. Fischer, Cassellis.
- Kramarenko, S.S.** 1997. Vliyanie faktorov vneshnej sredy na geograficheskuyu izmenchivost konkhologicheskikh priznakov krymskikh mollyuskov *Brephulopsis cylindrica* (Menke, 1828) (Gastropoda; Pulmonata; Buliminidae) [Influence of environmental factors on the geographical variability of conchological characters of Crimean molluscs *Brephulopsis cylindrica* (Menke, 1828)]. *Zhurnal Obshchei Biologii*, **58**(1): 94–101.
- Kramarenko, S.S.** 2009. Osobennosti vnutri- i mezhpopylyatsionnoj struktury konkhimetricheskoy izmenchivosti nazemnogo mollyuska *Brephulopsis cylindrica* (Gastropoda; Pulmonata; Buliminidae) [Peculiarities of the intra- and inter-population structure of the land snail's *Brephulopsis cylindrica* conchiometry variability]. *Vestnik Zoologii*, **43**(1): 51–58.
- Krynicky, J.** 1837. Conchylia tam terrestria, quam fluviatilia et e maribus adjacentibus Imperii Rossici indigena, quae pro mutua offeruntur historiae naturalis culturibus commutatione. *Bulletin de la Société Impériale des Naturalistes de Moscou*, **10**(2): 50–64.
- Lindholm, W.A.** 1925. Beitrag zur Systematik und Nomenklatur der Familie Enidae (Buliminidae). *Archiv für Molluskenkunde*, **57**: 23–41.
- Menke, C.T.** 1828. *Synopsis methodica molluscorum generum omnium et specierum earum, quae in museo Menkeano adservantur; cum synonymia critica et novarum specierum diagnosibus*. Pp. I–XII [= 1–12], 1–91. Gelpke, Pymonti.
- Rabchuk, V.P., Zemoglyadchuk, K.V.** 2011. Pervaya dlya Belarusi nahodka nazemnogo vida mollyuskov *Brephulopsis cylindrica* (Gastropoda, Pulmonata, Enidae) [The first finding of land snail *Brephulopsis cylindrica* in the territory of Belarus]. *Ruthenica*, **21**(2): 95–96.
- Retowski, O.** 1883. Die Molluskenfauna der Krim. *Malakozoologische Blätter* (Neue Folge), **6**: 1–34.
- Richardson, C.L.** 1991. Urocoptidae: catalogue of species. *Tryonia*, **22**: 1–245.
- Sverlova, N.V., Khlus, L.N., Kramarenko, S.S., Son, M.O., Leonov, S.V., Korol, E.N., Vychalkovskaya, N.V., Zemoglyadchuk, K.V., Kyrpan, S.P., Kuzmovich, M.L., Stenko, R.P., Ferents, O.G., Shklaruk, A.N. & Gural, R.I.** 2006. *Fauna, ekologiya i vnutrividovaya izmenchivost nazemnykh mollyuskov v urbanizirovannoy srede* [Fauna, ecology and intraspecific variability of the terrestrial molluscs in urban environment]. 225 pp. Lvov.
- Sysoev, A. & Schileyko, A.** 2009. *Land snails and slugs of Russia and adjacent countries*. 312 pp. Pensoft, Sofia.
- Vychalkovskaya, N.V. & Kramarenko, S.S.** 2006. Osobennosti migratsyonnoj aktyvnosti nazemnykh mollyuskov *Brephulopsis cylindrica* (Gastropoda; Pulmonata; Buliminidae) [The migratory activity peculiarities of the land snails *Brephulopsis cylindrica* (in Russian)]. *Vestnik Zoologii*, **40**(2): 155–159.
- Wood, W.** 1828. *Index testaceologicus; or a catalogue of shells, British and foreign, arranged according to the Linnean system; with the Latin and English names, references to authors, and places where found. Illustrated with 2300 figures*. Ed. 2. Pp. i–xxii [= 1–22], [1], 1–212, (Supplement) iii–iv [= 3–4], [1], 1–59, [1], Pl. 1–38. Wood London.

Acknowledgement of receipt of this application was published in BZN **69**: 248.

Comments on this case are invited for publication (subject to editing) in the *Bulletin*; they should be sent to the Executive Secretary, I.C.Z.N., c/o Natural History Museum, Cromwell Road, London SW7 5BD, U.K. (e-mail: iczn@nhm.ac.uk).